

What is claimed:

1. An electrical raceway assembly for use with a structure, comprising:
  - an elongated raceway engageable to the structure and having a length, a transverse base and a pair of opposite upstanding sidewalls extending along said length to define at least one channel configured for retaining electrical wires; and
  - a locking element for detachably engaging said raceway to a surface of the structure, said locking element including
    - an attachment element engaged to said raceway at one end and defining an opening at an opposite end,
    - a stud defining a first axis along a length of said stud and having a threaded first end, an opposite second end and a shoulder between said first end and said second end, said first end insertable through said aperture to engage a threaded hole in the surface of the structure, and said shoulder sized to fit snugly within said aperture;
    - a core having a rounded outer surface and defining a thru-hole for receiving said second end of said stud and means for fixing said second end within said thru-hole, said core defining a second axis perpendicular to said first axis; and
    - a locking lever having a handle portion and a rounded camming portion, said camming portion including
      - a chamber for rotatably housing said core,
      - a wall defining a groove therethrough in communication with said chamber for receiving said second end of said stud

when said stud is engaged to said core and said core is housed in said chamber, said wall defining a contoured camming surface surrounding one end of said groove;

whereby said locking lever is rotatable about said second axis of said core from a first released position to a second locked position with the camming surface bearing against said attachment element to securely engage said raceway to the structure.

2. The electrical raceway assembly of claim 1 wherein said shoulder is insertable into said opening when said first end is threadably engaged to the threaded hole.

3. The electrical raceway assembly of claim 1, further comprising: a washer mountable on said second end of said stud and having a first surface for interfacing with said attachment element and a second surface for interfacing with said camming surface when said camming surface bears against said shoulder.

4. The electrical raceway assembly of claim 3, wherein said first surface is a relatively higher friction surface and said second surface is a relatively lower friction surface.

5. The electrical raceway assembly of claim 4, wherein said first surface is rubber and said second surface is a metal.

6. The electrical raceway assembly of claim 3 wherein said second end of said stud defines a first reduced diameter portion adjacent said

shoulder, said washer having a inner diameter larger than said second reduced diameter so that said washer can swivel when said washer is seated at said reduced diameter portion.

7. The electrical raceway assembly of claim 4, wherein said first surface of said washer is mounted on said stud against said attachment element.

8. The electrical raceway assembly of claim 1, wherein said opening is an elongated slot open at said opposite end.

9. The electrical raceway assembly of claim 1, wherein said second end of said stud terminates in a head having a diameter slightly smaller than a diameter of said thru-hole of said core.

10. The electrical raceway assembly of claim 9, wherein said means for fixing said second end within said thru-hole includes a pin hole defined in said core and a pin insertable into said pin hole for engaging said second end of said stud.

11. The electrical raceway assembly of claim 10, wherein said pin includes a rounded end for gripping said stud.

12. The electrical raceway assembly of claim 10, wherein said second end of said stud defines a second reduced diameter portion adjacent said head, said second reduced diameter portion configured for receiving said pin.

13. The electrical raceway assembly of claim 9, wherein said second end of said stud defines a cross hole between said shoulder and said head.

14. The electrical raceway assembly of claim 8 wherein said first end of said mounting plate defines an aperture for receiving a bolt.

15. The electrical raceway assembly of claim 14, further comprising an angle iron matingly disposed within one of said at least one channel along said length, said angle iron defining a bolt hole corresponding to said aperture for receiving the bolt.

16. A workspace structure assembly, comprising:  
a table top structure having an upper and lower surface and supported on at least one leg;

an elongated raceway engageable to said structure and having a length, a transverse base and a pair of opposite upstanding sidewalls extending along said length to define at least one channel configured for retaining electrical wires; and

a locking element for detachably engaging said raceway to an edge of said structure, said locking element including

an attachment element engaged at one end to said raceway and defining an opening at an opposite end,

a stud defining a first axis along a length of said stud and having a threaded first end, an opposite second end and a shoulder between said first end and said second end, said first end insertable

through said aperture to engage a threaded hole in said surface of said structure, and said shoulder sized to fit snugly within said aperture;

a core having a rounded outer surface and defining a thru-hole for receiving said second end of said stud and means for fixing said second end within said thru-hole, said core defining a second axis perpendicular to said first axis; and

a locking lever having a handle portion and a rounded camming portion, said camming portion including

a chamber for rotatably housing said core,

a wall defining a groove therethrough in communication with said chamber for receiving said second end of said stud when said stud is engaged to said core and said core is housed in said chamber, said wall defining a contoured camming surface surrounding one end of said groove;

whereby said locking lever is rotatable about said second axis of said core from a first released position to a second locked position with the camming surface bearing against said attachment element to securely engage said raceway to said structure.

17. The assembly of claim 16 wherein said surface of said structure is said lower surface and said raceway extends from said upper surface.

18. The assembly of claim 16 wherein said surface of said structure is said lower surface and said raceway extends from said lower surface.

19. A boot for bridging a pair of electrical raceways, comprising:  
an elongated tubular member having a semi-U shaped cross-section and including a pair of facing walls and a third wall

connecting said facing walls to define a tunnel along a length of said member, said member defining a tunnel mouth along said length of said member in communication with said tunnel, said member including,

a first end defining a first opening in communication with said tunnel, said first end having an inner surface and an outer surface and including a first gripping member for gripping an end of a raceway;

a second opposite end defining a second opening in communication with said tunnel, said second end having an inner surface and an outer surface and including a second gripping member for gripping an end of a second raceway; and

a relatively more flexible midsection between said first and second ends, said midsection bendable to assume various configurations.

20. The boot of claim 19 wherein said midsection is creased to form a number of corrugations.

21. The boot of claim 19, further comprising attachment means for attaching said first end to one of the raceways and said second end to the other raceway.

22. The boot of claim 19, wherein:

said first end includes a first attachment projection on said inner surface of said first end, said first attachment projection configured to engage a recess defined in one of the raceways; and

said second end includes a second attachment projection on said inner surface of said second end, said second attachment projection configured to engage a recess defined in the other of the raceways.

23. The boot of claim 22 wherein each said attachment projection is adjacent said third wall.

24. The boot of claim 19 wherein said facing walls of said member each terminate in a rounded edge.

25. The boot of claim 19 wherein said ends are composed of a material having an average durometer relatively higher than the durometer of said midsection.

26. The boot of claim 25 wherein said material is a thermoplastic.

27. The boot of claim 26 wherein said material is nylon.

28. The boot of claim 26 wherein said material is polypropylene.

29. The boot of claim 19 further comprising a first inner flange projecting inwardly from said inner surface of said first end and a second inner flange projecting inwardly from said inner surface of said second end.

30. A boot assembly for bridging a pair of electrical raceways, comprising:

a pair of boot sections, each said boot section including,

an elongated tubular member having a semi-U shaped cross section and a pair of facing walls and a third wall connecting said facing walls to define a tunnel along a length of said member, said member defining a tunnel mouth along said length of said member in communication with said tunnel, said member including,

a flexible section having a first end and an opposite end, said opposite end defining an inner flange inwardly projecting from said inner surface, said flange having a first surface facing said first end and an opposite surface, said section bendable to assume various configurations;

a first gripping portion connected to said first end and defining a first opening in communication with said tunnel, said first gripping portion having an inner surface and an outer surface and including a first gripping member for gripping an end of a raceway; and connecting means for connecting said opposite ends of said sections.

31. The boot assembly of claim 30, wherein said connecting means includes a U-shaped clip for maintaining said outer surfaces of said flanges in pressing engagement.

32. The boot assembly of claim 30, wherein said clip includes an inwardly projecting barb for gripping one of said flanges.

33. An electrical raceway assembly for use with a structure, comprising:

an elongated raceway engageable to the structure and having a length, a transverse base and a pair of opposite upstanding sidewalls extending



along said length to define at least one channel configured for retaining electrical wires, said base having an interior surface partially forming said channel and an opposite exterior surface, said exterior surface defining at least one elongate tongue and groove along said length, said tongue being spaced from said exterior surface and said groove formed between said tongue and said exterior surface; and

a plate having a length and engageable to said exterior surface, said plate having a decorative external surface and an internal surface, said plate including at least one elongate rib extending along said length of said plate, said rib including a projection receivable within said groove in cooperative interlocking engagement.

34. The assembly of claim 33 further comprising a second elongate tongue and groove defined along said length of said exterior surface and adjacent said tongue and groove, said second groove contiguous with said groove to form a groove pair with a substantially C-shaped cross-section.

35. The assembly of claim 34 wherein said rib includes a second projection extending oppositely from said projection, said rib having a T-shaped cross-section.

36. The assembly of claim 34 wherein said rib includes a second projection extending oppositely from said rib, said rib having a T-shaped cross-section.

37. The assembly of claim 34, further comprising a second groove pair defined along said exterior surface of said raceway and spaced apart from said groove pair.

38. The assembly of claim 37 wherein said internal surface of said plate includes a second rib spaced apart from said rib, said rib and said second rib each alternately receivable in one of said groove pair or said second groove pair.

39. The assembly of claim 35, wherein a portion of said plate is curved to form a canopy portion extendable over one of said sidewalls of said raceway when said plate is engaged to said exterior surface.

40. An elongated raceway for use with a structure, comprising:  
a transverse base and a pair of opposite upstanding sidewalls extending each having a length to define at least one channel configured for retaining electrical wires, said base having an interior surface partially forming a channel and an opposite exterior surface, said exterior surface defining a first elongate tongue and groove along said length, said tongue being spaced from said exterior surface and said groove formed between said tongue and said exterior surface and a second elongate tongue and groove defined along said length of said exterior surface and adjacent said tongue and groove, said second groove contiguous with said first groove to form a first groove pair with a substantially C-shaped cross-section.

41. The assembly of claim 40, further comprising a second groove pair defined along said exterior surface of said raceway and substantially parallel and spaced apart from said first groove pair.